

## ABSTRACT OF DISCLOSURE

A polyester polymerization catalyst consisting mainly of components except for antimony compounds or germanium compounds which exhibits an excellent catalyst activity and yields a highly thermally stable polyester whose thermal degradation upon a melt process is suppressed efficiently without any need of an inactivation or a removal of the catalyst, a polyester obtained using said polyester polymerization catalyst, and a method for producing a polyester using said polyester polymerization catalyst are provided. A polyester polymerization catalyst is one which contains no antimony or germanium, whose activity parameter (AP) fulfills the relationship:  $AP(\text{min}) < 2T(\text{min})$ , which gives, when used in a polymerization, a thermal stability degree (TD) of a resultant polyethylene terephthalate fulfilling the requirement:  $TD(\%) < 25$ , and which comprises a metal-containing component and an organic compound component having an Ar-O- and/or an Ar-N< unit. A polyester can be used in various molded articles such as a fiber, a film, a sheet and a hollow article.